



# Administering Windows Server 2012 (MS20411)

## **Introduction**

This course provides the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. This course focuses on the administration tasks necessary to maintain a Windows Server 2012 infrastructure such as configuring and troubleshooting name resolution, user and group management with Active Directory Domain Services (AD DS) and Group Policy, implementing Remote Access solutions such as DirectAccess,

VPNs and Web Application Proxy, implementing Network Policies and Network Access Protection, Data Security, deployment and maintenance of server images, as well as update management and monitoring of Windows Server 2012 environments.

To complete the complete Microsoft MCSA Server 2012, 2 other modules needs to be taken.

MS20410 - Installing and Configuring Windows Server 2012

MS20412 - Configuring Advanced Windows Server 2012 Services

## **Target Audience**

This course is intended for Win Server Administrators and Information Technology (IT) Professionals who wish to acquire the skills and knowledge necessary to be able to manage and maintain the core infrastructure required for a Windows Server 2012 and Windows Server 2012 R2 environment.

## **Certificate Of Attendance :**

Certificate Of Attendance will be awarded to participants completing the course achieving minimum 75% attendance.

## **Training Duration:**

Full-time: 5 Days

Time : 9.30am – 5.30pm

## **Exam Fee :**

Course : S\$1,999 excluding Microsoft Exam

Regn Fee:S\$50

Microsoft Exam - 70-411 (S\$246)

All fees subject to GST 7%.

## **Microsoft Exam :**

- This course prepares participants for Microsoft Exam : 70-411

## **DETAILED COURSE OUTLINE**

### **MS20411 : Administering Windows Server 2012**

#### **Module 1: Configuring and Troubleshooting Domain Name System**

This module explains how to configure and troubleshoot DNS, including DNS replication and caching. Introducing Active Directory, Identity, and access

- Configuring the DNS Server Role
- Configuring the DNS Zones
- Configuring the DNS Zones Transfers
- Managing and Troubleshooting DNS

#### **Module 2: Maintaining Active Directory Domain Services**

This module explains how to implement virtualized domain controllers and read-only domain controller (RODCs). It also explains how to perform common AD DS administrative tasks and manage the AD DS Database.

- Overview of AD DS
- Implementing Virtualized Domain Controllers
- Implementing RODCs
- Administering AD DS
- Managing the AD DS Database

#### **Module 3: Managing User and Service Accounts**

This module explains how to create, configure and automate the creation of user accounts. It also explains how to configure account-related properties of user objects. It further explains how to create and administer Managed Service Accounts.

- Configuring Password Policy and User Account Lockout Settings
- Configuring Managed Service Accounts

#### **Module 4: Implementing a Group Policy Infrastructure**

This module explains how to implement a GPO infrastructure. This also teaches how to perform common GPO management tasks, and manage GPOs by using Windows PowerShell. It also focuses on troubleshooting the application of GPOs.

- Introducing Group Policy
- Implementing and Administering GPOs
- Group Policy Scope and Group Policy Processing
- Troubleshooting the Application of GPOs

### **Module 5: Managing User Desktops with Group Policy**

This module explains how you can use Group Policy Objects (GPOs) to implement desktop environments across your organization by using Administrative Templates, Folder Redirection, Group Policy preferences, and where applicable, use software deployment to install and update application programs. It is important to know how to use these various GPO features so that you can configure your users' computer settings properly.

- Implementing Administrative Templates
- Configuring Folder Redirection and Scripts
- Configuring Group Policy Preferences
- Managing Software with Group Policy

### **Module 6: Implementing Remote Access**

In this module, you will learn how to implement and manage remote access in Windows Server 2012. You will also learn how to implement DirectAccess by using the Getting Started wizard, implement and manage an advanced DirectAccess infrastructure, and implement VPN.

- Overview of Remote Access
- Implementing DirectAccess by Using the Getting Started Wizard
- Implementing and Managing and Advanced DirectAccess Infrastructure
- Implementing VPN
- Implementing Web Application Proxy

### **Module 7: Installing, Configuring and Troubleshooting the Network Policy Server Role**

This module explains how to install and configure NPS, RADIUS Clients and servers. It also describes NPS authentication methods. It describes NPS authentication methods and how to monitor and troubleshoot NPS.

- Installing and Configuring a Network Policy Server
- Configuring RADIUS Clients and Servers
- NPS Authentication Methods
- Monitoring and Troubleshooting a Network Policy Server

### **Module 8: Implementing Network Access Protection**

This module explains how to configure, monitor, and troubleshoot NAP. It also explains how NAP can help to protect your network and the various NAP enforcement processes.

- Overview of Network Access Protection
- Overview of NAP Enforcement Processes
- Configuring NAP
- Configuring IPSec Enforcement for NAP
- Monitoring and Troubleshooting NAP

### **Module 9: Optimizing File Services**

This module describes FSRM, configure quotas, file screening, and storage reports and implement classification management and file management tasks. It describes the components of the DFS. It also explains how to configure DFS namespaces and DFS replication.

- Overview of FSRM
- Using FSRM to Manage Quotas, File Screens and Storage Reports
- Implementing Classification and File Management Tasks
- Overview of DFS
- Configuring DFS Namespaces
- Configuring and Troubleshooting DFS Replication

### **Module 10: Configuring Encryption and Advanced Auditing**

This module explains how to encrypt files using EFS and configure advanced auditing features.

- Encrypting Drives by Using BitLocker
- Encrypting Files by Using EFS
- Configuring Advanced Auditing

### **Module 11: Deploying and Maintaining Server Images**

This module how to create and manage server images by using Windows Deployment Services.

- Overview of Windows Deployment Services
- Managing Images
- Implementing Deployment with Windows Deployment Services
- Administering Windows Deployment Services

### **Module 12: Implementing Update Management**

This module explains how to use Windows Server Update Services (WSUS) to deploy updates to Windows servers and clients.

- Overview of WSUS
- Deploying Updates with WSUS

### **Module 13: Monitoring Windows Server 2012**

This module explains the monitoring tools available in Windows Server 2012. It also explains how to use Performance Monitor and monitor events.

- Monitoring Tools
- Using Performance Monitor
- Monitoring Event Logs

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